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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,981	10/02/2003	Toshiyuki Wakisaka	2003_1394A	6282
	7590 03/20/200 H, LIND & PONACK, I		EXAM	IINER
2033 K STREET N. W. TSE, YOUNG TOI			UNG TOI	
SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
	,		2611	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		4	K
	Application No.	Applicant(s)	
	10/675,981	WAKISAKA ET AL.	
Office Action Summary	Examiner	Art Unit	
	YOUNG T. TSE	2611	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a rent in the seriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	12 October 2003		
_	This action is non-final.		
Since this application is in condition for all closed in accordance with the practice unclosed.	owance except for formal matt		
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 3-6,9 and 10 is/are allowed. 6) ☐ Claim(s) 1-2,7-8 and 11-15 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	ndrawn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Exam			
10)⊠ The drawing(s) filed on <u>02 October 2003</u> is			
Applicant may not request that any objection to	,		
Replacement drawing sheet(s) including the constant of the con	,		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	A) 🗀 Intocia	tummanı (PTO 413)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20040202. 	Paper No(s	tummary (PTO-413) s)/Mail Date Iformal Patent Application	

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because: It does not include the notary's signature for all the inventors.

Drawings

3. Figures 14-15, 16(a), 16(b), 17(a), 17(b), and 18-20 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

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4. The disclosure is objected to because of the following informalities: paragraph [0084], "Fig. 2" should be "Fig. 3"; paragraphs [0085] and [0092], "unit 3, 4" should be "units 3, 4"; paragraph [0130], "A ... units 3, 4" should be "The ... units 3, 4"; and paragraph [0131], there is no space between "7" and "detect". Further, Fig. 17(b) is not described in the specification. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 2, 7-8, and 12-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 2, 7-8, and 13-14 recite a frequency correlation bandwidth in accordance with intervals between peaks and/or between dips in a reception level frequency distribution and the frequency correlation bandwidth is a half of each interval between peaks and/or between dips in the reception level frequency distribution intersects a reception level threshold. The specification describes the performance and gives examples of obtaining a frequency correlation bandwidth in accordance with intervals

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between dips in a reception level frequency distribution, but not with intervals between peaks in a reception level frequency distribution.

The configuration of claim 12 does not correspond to the disclosure of the drawings. According to the present invention, three different diversity embodiments are shown in Figs. 1, 7 and 11, respectively, however, claim 12 recites the claimed subject matter of the combination of all three embodiments which clearly is not included in the present invention. For example, claim 12 recites the common block elements of the three embodiments and at least a frequency correlation bandwidth-calculating unit (23) of Figs. 1 and 7 and a sub-band decomposition-calculating unit (26) of Fig. 11. Also see claims 13 and 14. Wherein claim 16 depends upon claim 14.

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 11 and 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 2 of claims 11 and 15, the term "a combination of one element" is indefinite because a combination needs at least two elements.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

10. Claim 1 is rejected under 35 U.S.C. 102(a) as being anticipated by the admitted prior art Fig. 15 of the instant application (hereafter "APA").

The APA Fig. 15 of the instant application shows a sub-band decomposition diversity receiver comprising sub-band decomposing unit 10 or 11 for determining a frequency correlation bandwidth in accordance with reception level frequency distribution. See paragraph [0019] of the instant application.

Allowable Subject Matter

- 11. Claims 3-6 and 9-10 are allowed.
- 12. Claim 11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tsurumaru relates to a diversity receiver used in digital mobile communications terminal equipment.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is (571) 272-3051. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OUNG T. TSE
Primary Examiner
Art Unit 2611